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PTO/SB/82 (04-05)  
Approved for use through 11/30/2005. OMB 0651-0035  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

<b>REVOCATION OF POWER OF ATTORNEY WITH NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS</b>	Application Number	10/812,349-Conf. #2684
	Filing Date	March 30, 2004
	First Named Inventor	Tomoo Iijima
	Art Unit	2814
	Examiner Name	T. X. Le
	Attorney Docket Number	SOCKET 3.0-003

I hereby revoke all previous powers of attorney given in the above-identified application.				
<input type="checkbox"/> A Power of Attorney is submitted herewith. <b>OR</b> <input checked="" type="checkbox"/> I hereby appoint the practitioners associated with the Customer Number: <span style="border: 1px solid black; padding: 2px;">038091</span>				
<input checked="" type="checkbox"/> Please change the correspondence address for the above-identified application to: <div style="display: flex; align-items: center;"><input checked="" type="checkbox"/> The address associated with Customer Number: <span style="border: 1px solid black; padding: 2px; margin-left: 10px;">038091</span></div> <b>OR</b>				
<input type="checkbox"/> Firm or Individual Name				
Address				
City				
Country		State		Zip
Telephone		Email		
I am the: <input type="checkbox"/> Applicant/Inventor. <input checked="" type="checkbox"/> Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)				
<b>SIGNATURE of Applicant or Assignee of Record</b>				
Signature				
Name	Christopher M. Pickett			
Date	8/8/05		Telephone	(408) 894-0700
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.				
<input type="checkbox"/>	*Total of <u>1</u> forms are submitted.			



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/96 (09-04)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

### STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Tomoo Iijima, Kimitaka Endo, Kazuo Ikenaga, Hiroshi Odaira, Naoto Minari, and Takashi Kato

Application No./Patent No.: 10/812,349 Filed/Issue Date: March 30, 2004

Entitled: WIRING CIRCUIT BOARD, MANUFACTURING METHOD FOR THE WIRING CIRCUIT BOARD, AND CIRCUIT MODULE

Socketstrate, Inc., a Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.

The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Inventors To: North Corporation  
The document was recorded in the United States Patent and Trademark Office at Reel 014765, Frame 0725, or for which a copy thereof is attached.
2. From: North Corporation To: Socketstrate, Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee

Christopher M. Pickett  
Signature

8/8/05  
Date

Christopher M. Pickett  
Printed or Typed Name

408-894-0700  
Telephone Number

Senior Vice President  
Title



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



\*800012498A\*

JUNE 23, 2004

PTAS

ARMSTRONG, KRATZ, QUINTOS, HANSON & BROO  
1725 K STREET, NW  
SUITE 1000  
WASHINGTON, DC 20006

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/23/2004

REEL/FRAME: 014765/0725

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 040158

ASSIGNOR:

IIJIMA, TOMOO

DOC DATE: 06/16/2004

ASSIGNOR:

ENDO, KIMITAKA

DOC DATE: 06/16/2004

ASSIGNOR:

IKENAGA, KAZUO

DOC DATE: 06/16/2004

ASSIGNOR:

ODAIRA, HIROSHI

DOC DATE: 06/16/2004

ASSIGNOR:

MINARI, NAOTO

DOC DATE: 06/16/2004

ASSIGNOR:

KATO, TAKASHI

DOC DATE: 06/16/2004

DOCKETED

DATE

6/24/04

AUG 19 2005

## PATENT ASSIGNMENT

Electronic Version v07

Stylesheet Version v02

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT OF ASSIGNOR'S INTEREST														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Tomoo IJIMA</td><td>2004-06-16</td></tr><tr><td>Kimitaka ENDO</td><td>2004-06-16</td></tr><tr><td>Kazuo IKENAGA</td><td>2004-06-16</td></tr><tr><td>Hiroshi ODAIRA</td><td>2004-06-16</td></tr><tr><td>Naoto MINARI</td><td>2004-06-16</td></tr><tr><td>Takashi KATO</td><td>2004-06-16</td></tr></tbody></table>		Name	Execution Date	Tomoo IJIMA	2004-06-16	Kimitaka ENDO	2004-06-16	Kazuo IKENAGA	2004-06-16	Hiroshi ODAIRA	2004-06-16	Naoto MINARI	2004-06-16	Takashi KATO	2004-06-16
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Naoto MINARI	2004-06-16														
Takashi KATO	2004-06-16														
RECEIVING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Street Address</th><th>Internal Address</th><th>City</th><th>State/Country</th><th>Postal Code</th></tr></thead><tbody><tr><td>NORTH CORPORATION</td><td>32-1, Minami-Otsuka 3-chome, Toshima-ku,</td><td></td><td>Tokyo</td><td>JAPAN</td><td>170-0005</td></tr></tbody></table>		Name	Street Address	Internal Address	City	State/Country	Postal Code	NORTH CORPORATION	32-1, Minami-Otsuka 3-chome, Toshima-ku,		Tokyo	JAPAN	170-0005		
Name	Street Address	Internal Address	City	State/Country	Postal Code										
NORTH CORPORATION	32-1, Minami-Otsuka 3-chome, Toshima-ku,		Tokyo	JAPAN	170-0005										
PROPERTY NUMBERS Total: 1															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number</td><td>10812349</td></tr></tbody></table>		Property Type	Number	Application Number	10812349										
Property Type	Number														
Application Number	10812349														
CORRESPONDENCE DATA															
FAX NUMBER: 2028870357															
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.															
CUSTOMER NUMBER: 023850															
NAME OF PERSON SIGNING:	William G. Kratz Jr.														
DATE SIGNED:	2004-06-23														

Total Attachments: 1  
source=A040158.tif

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Docket No. 040158

Armstrong, Kratz, Quintos, Hanson &amp; Brooks, LLP

## U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by  
**NORTH CORPORATION**

**32-1, Minami-Otsuka 3-chome, Toshima-ku, Tokyo 170-0005 Japan**

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled:

(Title of Invention)

**wiring circuit board, manufacturing method for the wiring  
circuit board, and circuit module**

(\*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

03/30/2004 10/812,349

\* filed on \_\_\_\_\_, Serial No. \_\_\_\_\_.

(Armstrong, Kratz, Quintos, Hanson & Brooks, LLP is hereby authorized to insert the serial code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

<u>Tomoo Iijima</u> (Signature)	<u>Tomoo IIJIMA</u> (Type Name)	<u>06/16/2004</u> (Date)
<u>Kimitaka Endo</u> (Signature)	<u>Kimitaka ENDO</u> (Type Name)	<u>06/16/2004</u> (Date)
<u>Kazuo Ikenaga</u> (Signature)	<u>Kazuo IKENAGA</u> (Type Name)	<u>06/16/2004</u> (Date)
<u>Hiroshi Odaira</u> (Signature)	<u>Hiroshi ODAIRA</u> (Type Name)	<u>06/16/2004</u> (Date)
<u>Naoto Minari</u> (Signature)	<u>Naoto MINARI</u> (Type Name)	<u>06/16/2004</u> (Date)
<u>Takashi Kato</u> (Signature)	<u>Takashi KATO</u> (Type Name)	<u>06/16/2004</u> (Date)



RECORDATION FORM COVER SHEET  
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):  
NORTH CORPORATION

Execution Date(s): May 31, 2005

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

2. Name and address of receiving party(ies)

Name: SOCKETSTRATE, INC.

Internal Address:

Street Address:

3099 ORCHARD DRIVE

City: SAN JOSE

State: CALIFORNIA

Country: United States of America Zip: 95134

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

10/450,844 10/880,588  
10/812,349 11/029,423  
10/823,611 11/085,108

Additional numbers attached?

☐ This document is being filed together with a new application.

B. Patent No.(s)

6,528,874 6,782,610  
6,617,236 6,828,221  
6,646,337 6,884,709

☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Daryl K. Neff  
LERNER, DAVID, LITTENBERG,  
KRUMHOLZ & MENTLIK, LLP

Internal Address: Atty. Dkt.: Socket 5.2-001

Street Address: 600 South Avenue West

City: Westfield

State: NJ Zip: 07090

Phone Number: (908) 518-6396

Fax Number: (908) 654-7866

Email Address: dneff@ldlkm.com

6. Total number of applications and patents involved:

12

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 480.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers  
Expiration Date

b. Deposit Account Number 12-1095

Authorized User Name Daryl K. Neff

9. Signature:

Signature

July 22, 2005

Date

Daryl K. Neff - 38,253

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

**ASSIGNMENT**

**Docket Number (Optional)**

Socket 5.2-001

WHEREAS, **North Corporation**, a corporation organized under the laws of Japan, having a place of business at 32-1, Minami-Otsuka 3-chome, Toshima-ku, Tokyo, Japan, is the sole and exclusive owner, by assignment, of the patent applications and Letters Patents of the United States of America listed on the attached Exhibit A-1 (the "U.S. Patent Assets"):-

WHEREAS, **Socketstrate, Inc.**, a corporation of the State of Delaware, located and doing business at 3099 Orchard Drive, San Jose, California 95134 is desirous of acquiring the right, title and interest in, to and under said Letters Patents and the invention covered thereby;

NOW, THEREFORE, in consideration of and in exchange for the sum of One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, the said **North Corporation** has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to the said **Socketstrate, Inc.**, the said inventions and the Letters Patents, the same to be held and enjoyed by the same **Socketstrate, Inc.**, for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, to the end of the term or terms for which said Letters Patents of the United States are granted or reissued or reexamined as fully and entirely as the same would have been held and enjoyed by the said **North Corporation**, if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of said Letters Patents, with the right to sue for, and collect the same for its own use and behoof, and for the use and behoof of its successors, assigns, or other legal representatives.

IN WITNESS WHEREOF, **North Corporation** has caused these presents to be signed by its duly appointed trustee having full authority to convey its property.

And if the filing date and/or application number of any one of the U.S. Patent Assets is unknown to **North Corporation** and **Socketstrate, Inc.** at the time this Assignment is executed, I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

Dated: May 31, 2005  
(Month Day)

Tomoo Iijima  
Tomoo Iijima



**EXHIBIT A-1**  
**U.S. PATENT ASSETS**

Application No.	Filing Date (MM/DD/YY)	Patent No.	Issue Date (MM/ DD/YY)	First Inventor	Title
11/029,423	01/06/05			TOMOO IJIMA	CONNECTING MEMBER BETWEEN WIRING FILMS, MANUFACTURING METHOD THEREOF, AND MANUFACTURING METHOD OF MULTILAYER WIRING SUBSTRATE
10/812,349	03/30/04			TOMOO IJIMA	WIRING CIRCUIT BOARD, MANUFACTURING METHOD FOR THE WIRING CIRCUIT BOARD, AND CIRCUIT MODULE
10/880,588	07/01/04			TOMOO IJIMA	MULTILAYER WIRING BOARD FOR AN ELECTRONIC DEVICE
		6,884,709	04/26/05	TOMOO IJIMA	CONNECTION MEMBER BETWEEN WIRING FILMS, MANUFACTURING METHOD THEREOF, AND MANUFACTURING METHOD OF MULTILAYER WIRING SUBSTRATE
11/085,108	03/22/05			KENJI OSAWA	INTERLAYER MEMBER USED FOR PRODUCING MULTILAYER WIRING BOARD AND METHOD OF PRODUCING THE SAME
10/450,844	06/26/03			TOMOO IJIMA	MULTI-LAYER WIRING BOARD, METHOD FOR PRODUCING MULTI-LAYER WIRING BOARD, POLISHING MACHINE FOR MULTI-LAYER WIRING BOARD, AND METAL SHEET FOR PRODUCING WIRING BOARD
		6,528,874	03/04/03	TOMOO IJIMA	WIRING CIRCUIT SUBSTRATE AND MANUFACTURING METHOD THEREOF
		6,828,221	12/07/04	TOMOO IJIMA	MANUFACTURING METHOD FOR WIRING CIRCUIT SUBSTRATES
		6,646,337	11/11/03	TOMOO IJIMA	WIRING CIRCUIT SUBSTRATE AND MANUFACTURING METHOD THEREFOR
10/823,611	04/14/04			TOMOO IJIMA	MANUFACTURING METHOD FOR WIRING CIRCUIT SUBSTRATE
		6,782,610	08/31/04	TOMOO IJIMA	METHOD FOR FABRICATING A WIRING SUBSTRATE BY ELECTROPLATING A WIRING FILM ON A METAL BASE
		6,617,236	09/09/03	KENJI OSAWA	FABRICATION METHOD OF WIRING SUBSTRATE FOR MOUNTING SEMICONDUCTOR ELEMENT AND SEMICONDUCTOR DEVICE